

Title (en)

METHOD FOR PRODUCING N-SILYLAMINOALKYLSILANE COMPOUNDS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON N-SILYLAMINOALKYLSILAN-VERBINDUNGEN

Title (fr)

PROCÉDÉ DE PRODUCTION DE COMPOSÉS N-SILYLAMINOALKYLSILANE

Publication

EP 3480206 A4 20200219 (EN)

Application

EP 17819792 A 20170606

Priority

- JP 2016131246 A 20160701
- JP 2017020967 W 20170606

Abstract (en)

[origin: EP3480206A1] Provided is a method that produces N-silylaminoalkylsilane compounds. An N-silylaminoalkylsilane compound is produced by reacting an aminoalkylsilane compound and a monochlorosilane compound in the presence of a tertiary amine compound having an acid dissociation constant (pKa) of 7 or higher and a polar surface area (PSA) of 12 Å² or higher. The aminoalkylsilane compound is, for example, a compound represented by formula (1). In formula (1), R₁ is a C1-5 alkyl; R₂ is hydrogen, phenyl, or 2-aminoethyl; m is 1, 2, 3, 4, or 5; and n is 0, 1, or 2. The reaction is as indicated in (ZZ).

IPC 8 full level

C07F 7/18 (2006.01)

CPC (source: EP KR US)

C07F 7/18 (2013.01 - US); **C07F 7/1804** (2013.01 - EP); **C07F 7/1888** (2013.01 - EP KR)

Citation (search report)

- [A] US 2008103261 A1 20080501 - TANAKA KEN [JP], et al
- See references of WO 2018003427A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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EP 17819792 A 20170606; CN 201780039888 A 20170606; JP 2017020967 W 20170606; JP 2018524994 A 20170606; KR 20187032205 A 20170606; US 201716313053 A 20170606